

WSK Series Weld Slag Resistant Inductive Proximity Sensors

M18 (18mm)



- Low cost/high performance
- Weld slag resistant coating
- Inductive sensor
- Full metal housing
- Increased sensing range
- Gold-plated contacts
- Flush mounting
- Lifetime warranty



WSK Series M18 Inductive Proximity Selection Chart

| Part Number | Price | Sensing Range | Mounting | Output State | Logic | Voltage | Connection | Wiring | Dimensions |
|------------------|-------|---------------|----------|--------------|---------|-----------|----------------------------|-----------|------------|
| WSK-AP-3H | | 8mm [0.31in] | Flush | N.O. | PNP | 10–30 VDC | 4-pin M12 quick-disconnect | Diagram 1 | Figure 1 |
| WSK-A0-3E | | 6mm [0.24in] | | | PNP/NPN | 10–36 VDC | 4-pin M12 with 0.3m cable | Diagram 2 | Figure 3 |

Wiring Diagrams

Diagram 1

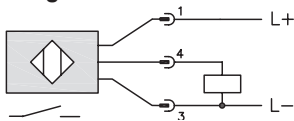
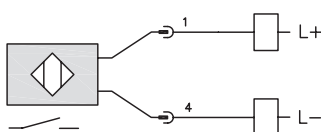


Diagram 2



Connectors

4-pin M12 PNP



4-pin M12 0.3m



Dimensions

mm [inches]

Figure 1

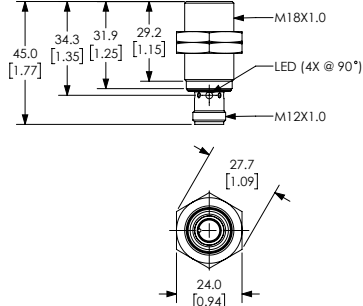


Figure 2

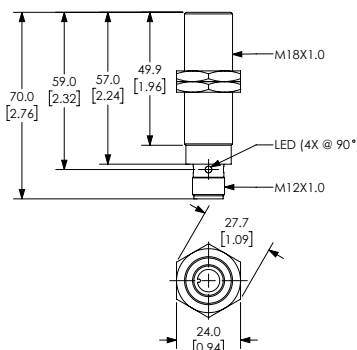
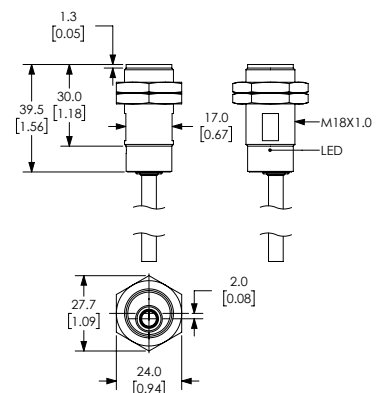


Figure 3



WSK Series Weld Slag Resistant Inductive Proximity Sensors

| WSK Series M18 Inductive Proximity Specifications | | |
|--|--|---|
| Model | <u>WSK-AP-3H</u> | <u>WSK-A0-3E</u> |
| Mounting Type | Flush | |
| Nominal Sensing Distance | 8mm [0.31in] | 6mm [0.24in] |
| Operating Distance | 0–6.48mm | 0–4.0mm |
| Material Correction Factors | See the Material Influence table | |
| Output Type | N.O. | |
| Operating Voltage | 10 to 30 VDC | 10 to 36 VDC |
| No-load Supply Current | <10 mA | NA |
| Operating (Load) Current | <100 mA | |
| Off-state Leakage Current | NA | <0.6 mA |
| Voltage Drop | <2.5V | |
| Switching Frequency | 2 Hz | 50 Hz |
| Differential Travel (% of Nominal Distance) | 3–15 | 1–20 |
| Repeat Accuracy | NA | |
| Ripple | NA | |
| Time Delay Before Availability (tv) | NA | |
| Short Circuit Protection | Yes | Pulsed |
| Operating Temperature | -40 to +85 °C [-40 to +185 °F] | -25 to +70 °C [-13 to +158 °F] |
| Protection Degree (DIN 40050) | IP65 / IP66 / IP67 / IP68 / IP69K | IP67 |
| LED Indicators | Illuminated when energized | |
| Housing Material | Stainless steel 316L / 1.4404 with anti-spatter ceramic (Polytetrafluoroethylene [PTFE]) coating | |
| Sensing Face Material | active face: stainless steel 316L 1.4404 anti-spatter | |
| Shock/Vibration | See Proximity Sensor Terminology | |
| Weight | 0.046 kg | 0.067 kg |
| Connection | 4-pin M12 quick-disconnect | PUR cable / 0.3m; 2 x 0.5 mm ² ; with M12 quick-disconnect |
| Agency Approvals | cULus E328811, CE | |

To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.